

What is claimed is:

1. A power transmission apparatus comprising:
a pulley connected to a driving source and receiving a rotational force;
at least one damper installed on the pulley; and
5 a cover plate including a hub connecting the pulley and a compressor, a fixed plate coupled to an upper surface of the hub, and a plurality of deformation members independently installed on an outer circumferential surface of the fixed plate,
wherein, when an overload is applied to the compressor, the deformation members are deformed and a coupling relationship with the damper is released so
10 that power transmission from the driving source is cut off.
2. The power transmission apparatus as claimed in claim 1, wherein the deformation member of the cover plate includes at least one main slit to deform an
15 front end of the deformation member and at least one auxiliary slit to deform a side surface of the deformation member.
3. The power transmission apparatus as claimed in claim 1, wherein the deformation member of the cover plate has a front surface and both side surfaces in
20 a direction in which the pulley rotates which are closed and a rear surface and a lower surface which are open, so that the deformation member is coupled to the damper to enclose the damper.
4. The power transmission apparatus as claimed in claim 1, wherein the damper has first and second protrusions protruding in a direction in which the pulley
25 rotates from both side edges of the damper and at least one auxiliary protrusion protruding in a direction perpendicular to the direction in which the pulley rotates.
5. The power transmission apparatus as claimed in claim 1, wherein the damper comprises a support portion coupled to the pulley and an elastic portion
30 enclosing an outer surface of the support portion.
6. The power transmission apparatus as claimed in claim 1, wherein the damper comprises at least one protrusion formed of an elastic resin member and a

fixed portion integrally formed with the pulley and having at least one coupling groove in which the protrusion is inserted and fixed.

- 5 7. The power transmission apparatus as claimed in claim 1, wherein the damper comprises a fixed portion integrally formed with the pulley and at least one protrusion is formed of an elastic resin material and molded integrally with the fixed portion.